



**Fig.1.** Examples of composite 60-cell dose-response profiles of various compounds tested in the NCI in vitro screen. Composite **A** is from the screening of a compound that produced little or no growth inhibition or cytotoxicity to any of the cell lines. Composite **B** is from the screening of a compound showing general (“nondifferential”) cytotoxicity at the highest tested concentration. Composite **C** shows results of screening of a compound that produced markedly “differential” cytotoxicity among the panel cell lines. Composite **D** illustrates another type of differential activity profile, in which there is no apparent dose dependence of the effects within the tested concentration range of the particular compound.